

PTO/SB/08A (04-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 7

Complete if Known

Application Number	10/066,311
Filing Date	February 2, 2002
First Named Inventor	Julie Moriarty et al.
Art Unit	1723
Examiner Name	Kim, Sun U
Attorney Docket Number	F-5816 (0360-0093)

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JK	1	US- 2003/0155312	08-21-2003	Ivansons et al.	
	2	US- 1,664,769	04-03-1928	H.M. Chance	
	3	US- 2,197,509	04-16-1940	F.C. Reilly et al.	
	4	US- 2,294,248	08-25-1942	T.J. Smulski	
	5	US- 2,398,233	04-09-1946	R.L. Lincoln	
	6	US- 2,670,849	03-02-1954	R.P. Dunmire	
	7	US- 2,709,500	05-31-1955	W.R. Carter	
	8	US- 3,026,871	03-27-1962	A. Thomas	
	9	US- 3,183,908	05-18-1965	S.C. Collins et al.	
	10	US- 3,355,382	11-28-1967	M.G. Huntington	
	11	US- 3,396,103	08-06-1968	M.G. Huntington	
	12	US- 3,400,074	09-03-1968	C.A. Greci	
	13	US- 3,491,887	01-27-1970	G. Maestrelli	
	14	US- 3,523,568	08-11-1970	Berardus van Leeuwen	
	15	US- 3,567,030	03-02-1971	Loeffler et al.	
	16	US- 3,568,835	03-09-1971	Holger M. Hansen	
	17	US- 3,634,228	01-11-1972	A. Latham, Jr.	
	18	US- 3,647,632	03-07-1972	D.E. Johnson et al.	
JK	19	US- 3,674,440	07-04-1972	S.S. Kitrilakis	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
JK JK	01	WO 81/02979	10-29-1981	Bilstad, A		
	02	WO 82/03567	10-28-1982	Dorson, Jr. W J		
	03	WO 82/03568	10-28-1982	Dorson, Jr. W J		
	04	WO 85/02783	07-04-1985	Shmidt, I		
	05	WO 85/04112	09-26-1985	Schoendorfer, D		
JK	06	1 480 406 (England)	07-20-1977	Gaylor, J		

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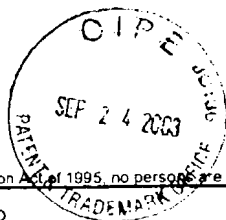
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Sheet 2 of 7**Complete if Known**

Application Number	10/066,311
Filing Date	February 2, 2002
First Named Inventor	Julie Moriarty et al.
Art Unit	1723
Examiner Name	Kim, Sun U
Attorney Docket Number	F-5816 (0360-0093)

U. S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
JK	20	US- 3,705,100	12-05-1972	W.F. Blatt et al.	
	21	US- 3,750,885	08-07-1973	Fournier	
	22	US- 3,771,658	11-13-1973	Brumfield	
	23	US- 3,771,899	11-13-1973	Brumfield	
	24	US- 3,795,318	03-05-1974	Crane, et al.	
	25	US- 3,821,108	06-28-1974	Manjikian	
	26	US- 3,830,372	08-20-1974	Manjikian	
	27	US- 3,847,817	11-12-1974	Jarman	
	28	US- 3,883,434	05-13-1975	Gayler	
	29	US- 3,900,290	08-19-1975	Hornstra	
	30	US- 3,900,398	08-19-1975	Gillette	
	31	US- 3,946,731	03-30-1976	Lichtenstein	
	32	US- 3,977,976	08-31-1976	Spaan, et al.	
	33	US- 4,040,965	08-09-1977	Kohlheb	
	34	US- 4,062,771	12-13-1977	Saupe	
	35	US- 4,066,554	01-03-1978	Guyer	
	36	US- 4,082,668	04-04-1978	Zeineh, et al.	
	37	US- 4,093,552	06-06-1978	Guyer	
	38	US- 4,113,614	09-12-1978	Rollo, et al.	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
JK	07	1 283 273 (England)	09-26-1972	Blatt, W et al.		
	08	1 583 221 (France)	10-24-1969	Lucien A et al.	No Translation	
	09	DE 3043682 (Germany)	07-30-1981	Eitle, W et al.	No Translation	
	10	1 442 874 (Germany)	11-02-1963		No Translation	
	11	SU197801 (Russia)	11-02-1963		abstract only	
	12	771142-5 (Sweden)	10-1977		No Translation	

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		Number-Kind Code ^{2 (if known)}			
JK	39	US- 4,184,952	01-22-1980	Stewart	
		US- 4,191,182	03-04-1980	Popovich et al.	
	40	US- 4,212,741	07-15-1980	Brumfield	
	41	US- 4,212,742	07-15-1980	Solomon, et al.	
	42	US- 4,214,990	07-29-1980	Joh	
	43	US- 4,303,068	12-01-1981	Zelman	
	44	US- 4,381,999	05-03-1983	Boucher, et al.	
	45	US- 4,412,553	11-01-1983	Kopp et al.	
	46	US- 4,444,596	04-24-1984	Gortz, et al.	
	47	US- 4,486,303	12-04-1984	Brous	
	48	US- 4,490,135	12-25-1984	Troutner	
	49	US- 4,493,693	01-15-1985	Bilstad, et al.	
	50	US- 4,535,062	08-13-1985	Muller	
	51	US- 4,579,662	04-01-1986	Jonsson	
	52	US- 4,876,013	10-24-1989	Shmidt, et al.	
	53	US- 4,790,942	12-13-1988	Shmidt, et al.	
	54	US- 5,034,135	07-23-1991	Fischel	
JK	55	US- 5,194,145	03-16-1993	Schoendorfer	
		US-			

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		Country Code ³ Number ⁴ Kind Code ² (if known)	MM-DD YYYY		
JK	13	0 052 004 A1 (EUROPE)	05-19-1982	Ash, S	
JK	14	0112152 A2 (EUROPE)	06-27-1984	Fischel, H	
JK	15	0076665 A2 (EUROPE)	04-13-1983	Ramstack, J M	

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Sheet	4	of	7
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Application Number	10/066,311
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Attorney Docket Number	F-5816 (0360-0093)

U. S. PATENT DOCUMENTS

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	40	US- 4,191,182	03-04-1980	Popovich et al.	
	41	US- 4,212,741	07-15-1980	Brumfield	
	42	US- 4,212,742	07-15-1980	Solomon, et al.	
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	44	US- 4,303,068	12-01-1981	Zelman	
	45	US- 4,381,999	05-03-1983	Boucher, et al.	
	46	US- 4,412,553	11-01-1983	Kopp et al.	
	47	US- 4,444,596	04-24-1984	Gortz, et al.	
	48	US- 4,486,303	12-04-1984	Brous	
	49	US- 4,490,135	12-25-1984	Troutner	
	50	US- 4,493,693	01-15-1985	Bilstad, et al.	
	51	US- 4,535,062	08-13-1985	Muller	
	52	US- 4,579,662	04-01-1986	Jonsson	
	53	US- 4,876,013	10-24-1988	Shmidt, et al.	
	54	US- 4,790,942	12-13-1988	Shmidt, et al.	
	55	US- 5,034,135	07-23-1991	Fishel	
JK	56	US- 5,194,145	03-16-1993	Schoendorfer	
		US-			

FOREIGN PATENT DOCUMENTS

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 5 of 7

Complete if Known

Application Number 10/066,311
Filing Date February 2, 2003
First Named Inventor Julie Moriarty, et al.
Group Art Unit 1723
Examiner Name Kim, Sun U
Attorney Docket Number F-5816 (0360-0093)

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JK	01	A.K. BHAGAT/C.R. WILKE, "Filtration Studies with Ultrafine Particles", 9/66, University of California, Lawrence Radiation Laboratory, Berkeley, CA, UCRL-16574, preprint release for announcement in Nuclear Science Abstracts	
	02	CASTINO, F.: "The Filtration of Plasma From Whole Blood: A Novel Approach To Clinical Detoxification", Publication #395 from the Blood Research Laboratory, The American National Red Cross (undated)	
	03	COLTON, C. K.: Fundamentals of Gas Transport in Blood, reprinted from "Artificial Lungs for Acute Respiratory Failure. Theory and Practice," W.M. Zapol and J. Qvist, Eds., Academic Press, N.Y. (1976)	
	04	EKSTEIN, E. C., et al.: "Self-Diffusion of Particles in Shear Flow of a Suspension", J. Fluid Mech. 1977, vol. 79, part 1, pp. 191-208	
	05	FORDSTROM, R. J., et al.: "Formed Element Deposition onto Filtering Walls", vol. XXI Trans. Amer. Soc. Artif. Int. Organs, 1975	
	06	GAYLOR, J. D., et al.: "Gas Transfer and Thrombogenesis In An Annular Membrane Oxygenator With Active Blood Mixing", vol. XIX Trans. Amer. Soc. Artif. Int. Organs, 1973	
	07	HALLSTROM, B., et al.: "Descriptions of a Rotating Ultra-filtration Module", Department of Food Engineering, Lund University (Sweden), Desalination, 24(1978) 273-279	
	08	KITRILAKIS, S., et al.: "A Rotating Disk Membrane Oxygenator", 1976 Hemisphere Publishing Corporation, Washington-London, Pages 211-221.	
	09	KOZINSKI, A. A.: "Protein Ultrafiltration: A General Example of Boundary Layer Filtration", AIChE Journal, vol. 18, No. 5, September 1972	
	10	LIEBERHERR, J.: "Hydrodynamic of Annular Gap Flow Between Permeable Cylinder Walls" 532 54 66.067.17, Escher Wyss Mitteilungen 2/1978-1/1979	
JK	11	LOPEZ-LEIVA: "Ultrafiltration at Low Degrees of Concentration: Technical Possibilities", Desalination, 35(1980) 115-128	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 6 of 7

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Application Number 10/066,311
Filing Date February 2, 2003
First Named Inventor Julie Moriarty, et al.
Group Art Unit 1723
Examiner Name Kim, Sun U
Attorney Docket Number F-5816 (0360-0093)



OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JK	12	LOPEZ-LEIVA: "Ultrafiltration In Rotary Annular Flow", (undated)	
	13	MARGARITIS, A. and WILKE, C.: "Engineering Analysis of the Rotorfermentor", Department of Chemical Engineering and Lawrence Berkeley Laboratory, University of California 94720 (undated)	
	14	ROBINSON, A.: "How Does Fluid Flow Become Turbulent", Science, 221:140, July 1983	
	15	SCHINDHELM, K., et al.: "Mass Transfer Characteristics of Plasma Filtration Membranes", Trans. Am. Soc. Artificial Organs, vol XXVII 1981, pp. 554-558	
	16	SCHLICHTING, H., et al.: "Boundary-Layer Theory", 6th Ed. McGraw-Hill Series In Mechanical Engineering (1968) pages 500-505	
	17	SHERWOOD, T.K.: Desalination by Reverse Osmosis, I & EC Fundamentals, v6 (1):2-12, Feb. 1967	
	18	SOLOMON, B.A.: "Membrane Separations: Technological Principals and Issues", Trans Am Soc Artif Intern Organs 1981, pp. 345-350	
	19	SOLOMON, B.A.: "Continuous Flow Membrane Filtration of Plasma from Whole Blood", Vol. XXIV Trans. Am. Soc. Artif. Intern. Organs, 1978, pages 23-26.	
	20	STRONG, A.B.: An Experimental Study of Mass Transfer in Rotating Coneote Flow with Low Axial Reynolds Number, The Canadian Journal of Chemical Engineering, Vol. 54, August, 1976, pages 295-298.	
	21	TAYLOR, G.I.: "Stability of a Viscous Liquid Cotnained Between Rotating Cylinders", Phil Trans Roy. Soc., A 223:289 (1923)	
JK	22	TAYLOR, G.I.: "Distribution of Velocity & Temperature Between Concentric Rotating Cylinders", Taylor, "Proc. Roy. Soc." A, vol. 135, p. 698 (1932) pages 494-512 (1935)	

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JK	23	TOBLER, W.: "Dynamic Filtration: The Engineering Concept of the Escher Wyss Pressure Filter", July/August 1982, Filtration & Separation	
	24	WERYNSK, A.: "Membrane Plasma Separation: Toward Improved Clinical Operation," Trans. Am. Soc. Artificial Organs, vol XXVII 1981, pp. 554-558	
	25	T.B. WILTBANK, et al.: "Filtration Plasmapheresis in Vivo", Transfusion, vol 21. No. 5, pp. 502-510 (undated)	
JK	26	ZYDNEY, A.L. et al.: "Continuous Flow Membrane Plasmapheresis: Theoretical Models For Flux And Hemolysis Prediction" (undated)	
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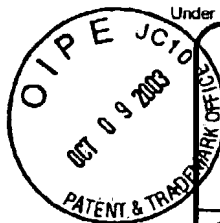
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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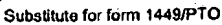
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Examiner Name	Kim, Sun U.
Attorney Docket Number	F5816 (0360-0093)

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